King County

WEB/N-TIER APPLICATION DEVELOPER

(INFORMATION SYSTEMS ANALYST II)
DEPARTMENT OF EXECUTIVE SERVICES
Information and Telecommunications Services Division
Annual Salary Range $53,926-$75,995
Job Announcement: 02PH2782
OPEN: 2/24/03   CLOSE: 3/10/03

WHO MAY APPLY: This position is open to all qualified candidates. Internal King County candidates will receive preference.

WHERE TO APPLY: Required forms and materials **must** be sent to **Teresa Sobol, 700 5th Avenue, Suite 2300, Seattle, WA 98104, Fax 206-263-4834.** Email applications are encouraged at teresa.sobol@metrokc.gov (all application materials must be included). Signatures on these documents will be obtained if you are invited for an interview. Applications materials must be received by 4:30 p.m. on the closing date. (Postmarks are NOT ACCEPTED.) *PLEASE NOTE:* **Applications** not received at the location specified above and those that are not complete may not be processed**.**

FORMS AND MATERIALS REQUIRED: A King County application form, resume and letter of interest detailing your background and describing how you meet or exceed the requirements, and completed supplemental questionnaire are required. Application forms may be found at http://www.metrokc.gov/ohrm/psd/howto.html.

WORK LOCATION: 700 5th Avenue, Key Tower, Downtown Seattle, WA.

WORK SCHEDULE: This position is exempt from the provisions of the Fair Labor Standards Act, and is not overtime eligible. The workweek is normally Monday through Friday.

PRIMARY JOB DUTIES INCLUDE: Works independently or as a team member in defining, estimating, managing, developing and supporting Web, Desktop and n-tier based applications.

1. Design, develop and support Web, Desktop and n-tier based applications.
2. Function as a team lead on large application development projects.
3. Work with client business analysts to plan business processes incorporating new Web, Desktop and n-tier technology.
4. Assist project teams in identifying and determining functional and technical requirements for new Web, Desktop and n-tier applications.
5. Define detailed work breakdown structures including project tasks to meet requirements and scope.
6. Create reliable project task work estimates and schedule for self and others, and identify associated dependencies, constraints, and assumptions.
7. Create and oversee detail specifications and prototypes for Web and Desktop and n-tier applications that meet client requirements.
8. Analyze, design, develop, test, document, and implement production applications including integration with legacy applications and databases.
9. Develop and oversee test plans and test scenarios based on requirements and specifications including utilization of efficient debugging processes.
10. Oversee turn-over of applications to production support.
11. Develop applications template and APIs for use by other developers.

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12. Conduct and participate in quality assurance reviews and peer reviews.
13. Define, implement, and oversee processes for software configuration control and change management.
14. Provide technical leadership for Web, Desktop and n-tier application projects.
15. Develop training plans and train others, as needed.

QUALIFICATIONS:

1. Bachelor's degree in engineering, computer science, mathematics or related field is required, or an equivalent combination of experience and education may be substituted.

2. At least 5 years experience in systems analysis, applications and systems design, development, documentation and testing applications, including 3 years object-oriented development experience with Web-based applications.

3. Strong Technical Skills:
   - Experience in Web development using ASP, Java, VB script, XML, HTTP, HTTPS, HTML, VB, Cold Fusion, APIs and other Web-based protocols
   - Experience working with SQL Server 7 and Access, including developing and maintaining SQL databases, table design, stored procedures, and triggers
   - Experience building re-usable code, including APIs and COM objects
   - Experience using IIS, VPN, Secure FTP
   - Experience integrating Web applications with legacy applications and databases.

4. Strong Interpersonal Skills:
   - Strong written and oral communication skills
   - Strong customer service and organization skills
   - Experience in working with a diverse group of people
   - Flexible, self-starter, creative problem solver
   - High level of accuracy and attention to detail
   - Ability to function in fast-paced, dynamic, collaborative team environment

5. Solid Project Experience:
   - Experience as a team lead, member or as a team of one on a high visibility, business critical project
   - Experience in directing the work of others on a project
   - Experience in working on multiple tasks and multiple projects simultaneously
   - Experience in being self-directed and meeting project deadlines

6. Extensive Software Development Knowledge and Experience:
   - Knowledge and experience with best practices in software development and software development lifecycles (SDLCs)
   - Experience with task definition, accurate work effort estimation, and scheduling for self and others.
   - Experience developing requirement documents for clients.
   - Experience developing detailed technology plans that specify what and how technologies will be used by others
   - Experience developing architecture and detail application design documents based on requirements documentation.
   - Experience designing and developing user interfaces that are highly usable and support complex business functionality
   - Experience developing and supporting mission critical Web, Desktop and n-tier based applications.

- Knowledge and experience with business and technical issues
- Experience working cooperatively with and directing the work of multiple vendors and service providers
- Experience with formal testing procedures
- Experience with software change control and configuration management

DESIRABLE QUALIFICATIONS:

1. Experience with SQL Server 7.0, Visual Basic 6.0 and Visual Studio 6.0.
2. Certification in Microsoft products such as SQL Server, Visual Basic 6.0, ASP and System Architecture and Design.
3. Experience developing in the .NET environment utilizing .NET development tools.
4. Knowledge of non-Windows Web environments, including UNIX, Linux and Apache.
5. Experience developing in a three-tier architecture.
6. Experience using middleware products, such as IBM's MQ series.

UNION MEMBERSHIP: Positions in this classification are represented by Local 17, Professional and Technical Unit.

CLASS CODE: 440100

ISA II/23
Supplemental Questionnaire
Information and Telecommunications Division
Job Announcement No.: 02PH2782

Please provide a concise written response to the following questions. You will be evaluated on your level and extent of experience, level of technical knowledge and clarity of response. Your response should be limited to no more than 2 pages. Please include your name and job number at the top of each page.

1. Describe your experience and process in obtaining requirements for a new application. What are the steps you have taken and the documents produced to be able to build a project plan and estimate the project.

2. Define what you see are the essential phases of an application development project, from a stated idea by a client to the successful implementation and maintenance of the application.

3. Describe your background and experience in developing applications. Include a description of your experience with applications. . What roles did you play in the project? How critical was the application. Were there various levels of user security defined within the application? What database was used? What interfaces were required with other applications. What was the development length and cost of development? How many users were anticipated? Was the application an Intranet or Web application? How many were on the development team.

4. Describe in detail your experience with Web application development tools and environments.

5. Describe in detail your experience with relational databases. Which databases have you used. Have you written stored procedures and triggers? Have you define tables and defined relationships between tables.

6. Describe your experience using a middle ware integration product such as IBM's MQ series product.

7. Describe the server environments that you have both developed on and deployed to. What has been your role in these environments?

8. Describe your experience developing client server and desktop applications. What development tools have you used, how many years of experience, how large have the applications been and how large or an audience base.

9. Describe what data access objects you have used, from which application languages to which databases.

10. Describe your experience as a technical lead or supervisor of a technology group.